

2. Bölüm

KÜRESEL ISINMA VE SU SICAKLIĞININ ILIMAN İKLİM BALIKLARI YETİŞTİRİCİLİĞİNE ETKİLERİ

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İKLİM DEĞİŞİKLİĞİ VE SUCUL SİSTEMLER

İklim Değişikliği

Hükümetlerarası İklim Değişikliği Panelleri (IPCC), 1988'den bu yana iklim değişikliği ve bunun politik ve ekonomik etkileri hakkında düzenli ve kanıta dayalı olarak güncellemeler yapmaktadır. Bu güncellemeler, iklim değişikliği bilimi, nedenleri ve sonuçları üzerine uluslararası kabul görmüş fikir birliğini kapsamlı bir şekilde sentezlemektedir. Bu paneller, iklim değişikliğinin sucul sistemlerin dinamikleri (okyanuslar, denizler, göller ve nehirler) ve özellikle su ürünleri üretimi yani balıkçılık ve su ürünleri yetiştiriciliği ile ilgili yönleri üzerinde başlıca etkilerine genel bir bakış sunmaktadır (IPCC, 2014).

İklim sistemleri hakkındaki bilgiler doğrudan ve dolaylı gözlemlerle ve binlerce yıl öncesine dayanan tarihi yeniden yapılandırılması ile ve ayrıca yeni araçsal gözlemler, ışınım ve sıcaklığın düşmesi veya yükselmesi gibi kavramsal ve sayısal modelleri içeren çok sayıda kanıta dayanmaktadır. Küresel düzeyde, Dünya'nın ortalama yüzey sıcaklığı 19.yy. ortalarından bu yana 0,8°C'den fazla artmıştır ve şu anda her on yılda 0,1°C'nin üzerinde bir oranda ısınmaya devam etmektedir (Hansen ve ark., 2010). Veri güvenilirliği ve kesinlik seviyesi, kıtalar arasında farklılık gösterse de ısı dalgaları artık daha sık görülmekte-

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İklim değişikliği sonucunda meydana gelen sıcaklık, yağış, okyanus asitliği, hipoksinin görülme sıklığı ve boyutundaki değişiklikler ve deniz seviyesi yükselmesi gibi durumlar ulusal ve küresel ölçekte su ürünleri yetiştiriciliği sektörü üzerinde uzun vadeli etkilere sahip olacaktır.

İklim değişikliğiyle oluşan olağandışı hava olaylarının sıklığında ve yoğunluğunda beklenen artış nedeniyle, su ürünleri çiftliklerinden kaçan balıkların sayısında artışa neden olabilir. İklimden kaynaklı doğal olayların neden olduğu kaçış riskini en aza indirmek için kafes ekipmanının kullanılması, havuz sistemlerini değiştirilmesi, çiftçilerin kapasitesinin geliştirilmesi ve sorunların çözümü için yönetim önlemlerini uygulanması gerekmektedir (Beveridge ve Brummett, 2016).

Bazı türler için balık unu ve balık yağı yemlerin önemli bileşenleri olduğundan, iklim değişikliğinin bu bileşenlerin temini üzerinde olumsuz etki oluşturabilir. Bu durum su ürünleri yetiştiriciliğini olumsuz etkileyebilir. Bu sorun, uzun vadede yemlerde balık işleme atıklarının kullanımının artırılması ve üretimi hali hazırda artmakta olan yeni yemlerin kullanılmasıyla azaltılabilir (Little ve ark., 2016).

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